What is claimed is:

- 1. A Gram-negative bacterium comprising, an inducible regulatory sequence operatively linked to a nucleotide sequence encoding a levansucrase contained within the genome of said Gram-negative bacterium.
- 2. A Gram-negative bacterium comprising a recombinant nucleotide sequence containing an inducible regulatory sequence other than sacR operatively linked to a nucleotide sequence encoding a levansucrase.
- 3. The Gram-negative bacterium of claim 1, wherein said nucleotide sequence encoding a levansucrase is a sacB open reading frame.
- 4. The Gram-negative bacterium of claim 1, wherein said bacterium is a member of the genus *Agrobacterium*
- 5. The Gram-negative bacterium of claim 3, wherein said bacterium is *Agrobacterium tumefaciens*.

345)^{6.}

The Gram-negative bacterium of claim 1, wherein said regulatory sequence comprises the *E. coli* lactose operon.

- 7. The Gram-negative bacterium of claim 1, wherein said regulatory sequence comprises the Pi 2(noc) promoter and the noc 1 operon.
- 8. The Gram-negative bacterium of claim 1, wherein said regulatory sequence comprises the P_{BAD} promoter and araC cis element.
- 9. A recombinant nucleic acid construct comprising an inducible regulatory sequence other than sacR, operatively linked to a nucleotide sequence encoding a levansucrase.
- **3** 10.
- The recombinant nucleic acid construct of claim 9, wherein said regulatory sequence comprises the *E. coli* lactose operon.

- 11.
- The recombinant nucleic acid construct of claim 9, wherein said regulatory sequence comprises the Pi2 (noc) promoter and the noc 1 operon.
- 12. The recombinant nucleic acid construct of claim 9, wherein said regulatory sequence comprises the P_{BAD} promoter and the araC cis element.
- 13. The recombinant nucleic acid construct of claim 9, wherein said sequence encoding a levansucrase is a sacB open reading frame.
- 14. A method for transforming a plant cell comprising,
 - a) obtaining an *Agrobacterium* whose genome contains an inducible regulatory sequence operatively linked to a nucleotide sequence encoding a levansucrase;
 - b) introducing a DNA construct into a T-DNA element of said *Agrobacterium*; and
 - c) inoculating at least one plant cell with the *Agrobacterium* of (b) for a time sufficient for mobilization of the T-DNA element from the *Agrobacterium* to the plant genome.
- 15. A method for transforming a plant cell comprising,
 - a) obtaining an *Agrobacterium* comprising a first recombinant nucleic acid construct containing an inducible regulatory sequence other than sacR, operatively linked to a nucleotide sequence encoding a levansucrase;
 - b) introducing a second DNA construct into a T-DNA element of said *Agrobacterium*; and
 - c) inoculating at least one plant cell with the *Agrobacterium* of (b) for a time sufficient for mobilization of the T-DNA element from the *Agrobacterium* to the plant genome.
- 16. The method of claim 14, further comprising counter selecting against said bacterium by introducing, in the presence of sucrose, a suitable inducer to cause the production of levansucrase by the bacterium resulting in the lysis of said bacterium.
- 5 w 7 17.
- The method of claim 14, wherein said regulatory sequence comprises the *E. coli* lactore operon.

5

5

5

5



- 18. The method of claim 14, wherein said regulatory sequence comprises the pi 2(noc) producter and noc 1 operon.
- 19. The method of claim 14, wherein said regulatory sequence comprises the P_{BAD} promoter and the araC cis element.
- 20. The method of claim 14, wherein said sequence encoding a levansucrase is a sacB open reading frame.
- 21. A method for counter selecting against a Gram-negative bacterium whose genome contains an inducible regulatory sequence operatively linked to a nucleotide sequence encoding a levansucrase comprising, introducing, in the presence of sucrose, a suitable inducer to cause the production the levansucrase by the bacterium resulting in the lysis of said bacterium.
- 22. A method for counter selecting against a Gram-negative bacterium containing a recombinant nucleic acid construct that includes an inducible regulatory sequence other than sacR, operatively linked to a nucleotide sequence encoding a levansucrase comprising, introducing, in the presence of sucrose, a suitable inducer to cause the production of levansucrase by the bacterium resulting in the lysis of said bacterium.
- 23. The method of claim 21, wherein said bacterium is a member of the genus *Agrobacterium*
- 24. The method of claim 23, wherein said bacterium is an *Agrobacterium tumefaciens* bacterium.



- The method of claim 21, wherein said regulatory sequence comprises the *E. coli* lactose operon.
- 26. The method of claim 21, wherein said regulatory sequence comprises the Pi 2(noc) promoter and noc 1 operon.

- 27. The method of claim 21, wherein said regulatory sequence comprises the P_{BAD} promoter and the araC cis element.
- 28. The method of claim 21, wherein said sequence encoding a levansucrase is a sacB open reading frame.
- 29. A vector comprising a recombinant nucleic acid construct containing an inducible regulatory sequence other than sacR, operatively linked to a nucleotide sequence encoding a levansucrase.
- The vector of claim 29, wherein said regulatory sequence comprises the *E. coli* lactose operon.
- 31. The vector of claim 29, wherein said regulatory sequences comprises the Pi 2(noc) promoter and noc 1 operon.
- 32. The vector of claim 29, wherein said regulatory sequences comprises the P_{BAD} promoter and the araC cis element.
- 33. The vector of claim 29, wherein said sequences encoding a levansucrase is a sacB open reading frame.
- 34. The Gram-negative bacterium of claim 1, wherein the regulatory sequence comprises the traCDG promoter and the occ promoter.
- 35. The Gram-negative bacterium of claim 3, wherein the nucleotide sequence encoding a levansucrase contains a second copy of a sacB open reading frame.
- 36. The recombinant nucleic acid construct of claim 9, wherein the regulatory sequence comprises the traCDG promoter and the occ promoter.
 - 37. The recombinant nucleic acid construct of claim 13, wherein the nucleotide sequence encoding a levansucrase contains a second copy of a sacB open reading frame.
 - 38. The method of claim 14, wherein the regulatory sequence comprises the traCDG promoter and the occ promoter.







- 39. The method of claim 20, wherein the nucleotide sequence encoding a levansucrase contains a second copy of a sacB open reading frame.
- The method of claim 21, wherein the regulatory sequence comprises the traCDG promoter and the occ promoter.
 - 41. The method of claim 28, wherein the nucleotide sequence encoding a levansucrase contains a second copy of a sacB open reading frame.
 - The vector of claim 29, wherein the regulatory sequence comprises the traCDG promoter and the occ promoter.
 - 43. The vector of claim 33, wherein the nucleotide sequence encoding a levansucrase contains a second copy of a sacB open reading frame.